Course specification

University/Academy: Damanhour.
Faculty/Institute: Science
Department: Chemistry

1. course Data:

<table>
<thead>
<tr>
<th>Course code:</th>
<th>Course title:</th>
<th>Academic year/level:</th>
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<tbody>
<tr>
<td>BioChem. 402</td>
<td>Metabolism 2</td>
<td>2010/2011</td>
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<td></td>
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<td>Forth year /2nd term</td>
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<tr>
<th>Specialization:</th>
<th>No. of instructional units:</th>
<th>lecture</th>
<th>practical</th>
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<tbody>
<tr>
<td>Chemistry/Biochemistry.</td>
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<td>3</td>
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2. course Aim

By the end of this course, students should be able to:
Understand the chemistry of disorder and diagnosis of metabolism.

3. Intended learning outcome

a) Knowledge and understanding

By the end of this course, students should be able to:
A1: Understand the chemistry of disorder and diagnosis of carbohydrates, lipids, amino acids proteins, hormones and minerals metabolism.

b) Intellectual skills

By the end of this course, students should be able to:
B1: Discuss the principles of disorder and diagnosis of metabolism


c) Professional skills

By the end of the course, student will be able to:
C1: Practice Bioorganic preparations.
C2: Explain the properties of metabolism.

d) General skills

D1: Use IT and web search engines for collecting information.
D2: Work effectively in a team, and independently on solving organic chemistry problems.
D3: Exchange ideas, principles and information by oral, written and visual means.
| 4. course content | D4: Communicate effectively with his lecturer and colleagues.  
• Disorder and diagnosis of carbohydrates metabolism.  
• Disorder and diagnosis of lipids metabolism.  
• Disorder and diagnosis of amino acids and proteins metabolism.  
• Disorder and diagnosis of hormones and minerals metabolism. |
|---|---|
| 5. Teaching and learning methods | 5.1. Lectures and seminars using data show and board.  
5.2. Laboratory work and assignment.  
5.3. Problem classes and group tutorial.  
5.4. Reports and discussion groups |
| 6. teaching and learning methods for students with special needs |  |
| 7. Student Assessment | a) Procedures used:  
7.1. Mid term exam.  
7.2. Practical exam.  
7.3. Problems.  
7.4. Assignments.  
7.5 Written exam.  
| b) Schedule: | Assessment 1: Practical Week: 4-13  
Assessment 2: Mid term Week: 9  
Assessment 3: Final practical Week: 15  
Assessment 4: Final written Week: 16  
| c) Weighing of Assessment: | Mid-Term Examination: 15  
Final-Term Examination: 150  
Practical Examination: 25  
Semester Work: 10  
Other types of assessment : 0  
‘Total 200  
| 8. List of Textbooks and References: | a) Course Notes  
b) Required Books |  
• Organic Chemistry, 4 th Eddition by Robert Wlrorison and Robert Boyd, Allyn and Bacon, Ir.c., |
| d) Periodicals, web sites, etc | |

**Course Instructor:**

Dr. Doha M. Beltagy

**Head of Department:**

Dr. Medhat A. Shaker

**Date:** ----/-----/2011.